



SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

SILENT KNIGHT RADAR PROGRAM



ROTARY WING

AGENDA

- **Silent Knight Radar (SKR) Operational View**
- **Highlights of Program Status**
- **Schedule**
- **Roadmap**
- **Way Forward**
- **Summary**



OPERATIONAL VIEW

**SOF Common Terrain Following/
Terrain Avoidance Radar
Low Probability of Detection/Low
Probability of Intercept
Addresses Obsolescence Issues
Upgradeable, Provisioned for DTED Blending**



**SKR provides color visual cueing
for the aircrew and Built-In Test to
aid in troubleshooting**

**Multi-Mode
Performance
Weather Radar
Turbulence and
Windshear
Detection
Airborne and
Maritime Tracking**

**Equipped with an
Anti-Ice Radome**



**Provides long range Infil/Exfil mission planning and execution options against
integrated air defense systems, adverse weather, and challenging terrain**

PROGRAM STATUS

- **Completed SIRFC Interoperability Demonstration (SKR Mode A)**
- **Completed Built-In Test Demonstrations**
- **Currently in Qualification Flight Testing (Redstone Arsenal, AL)**

ACQUISITION STRATEGY

- Competitive EMD and LRIP contract awarded in FY 2007
- Subsequent MH-47G and MH-60M integration conducted at SOFSA
- Follow-on platform integration and tech refresh FY19-20

PERIOD OF PERFORMANCE

- All PM, Engineering, Test, and LRIP I production covered by the System Design and Development contract
- The LRIP II contract has a projected award date of September 2015

MILESTONES

- Sep 2015 – Award LRIP II Contract
- Feb 2016 – Complete QT
- Mar 2016 – Award FRP I Contract
- April 2016 – Complete OT&E

POINT OF CONTACT

- SOF AT&L, Technology & Industry Liaison Office (TILO)
(813) 826-9482

FUNDING

- RTDE FY16-20
- PROC FY16-20
- O&M FY16-20

CURRENT CONTRACT/OEM

- SDD/LRIP I (CPFF)
- Raytheon SAS

SCHEDULE

- **May 15:** MH-60M rejoins Developmental Testing
- **May 15:** Receive LRIP radar
- **May 15:** Qualification Testing begins at Redstone Arsenal, AL
- **Sep/Oct 15:** CAAS V7.5 testing
- **Nov 15:** Qualification Testing transitions to Albuquerque, NM
- **Feb 16:** Qualification Testing completion
- **Mar 16:** Operational Test and Evaluation

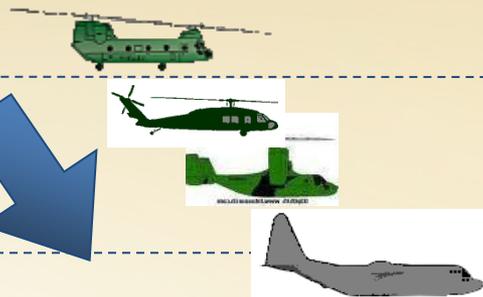
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
LRIP I Deliveries (6ea)				▲	▲	▲	▲	▲							
MH-47	DT/Regression Flights			QT - RSA				PMI		QT - ABQ				OT	
								CAAS 7.5							
MH-60	Inspections & 34.5 Beam Repair			DT/Reg	QT - RSA				PMI		QT - ABQ				OT
								CAAS 7.5							

ROADMAP

Platform Insertion

SDD

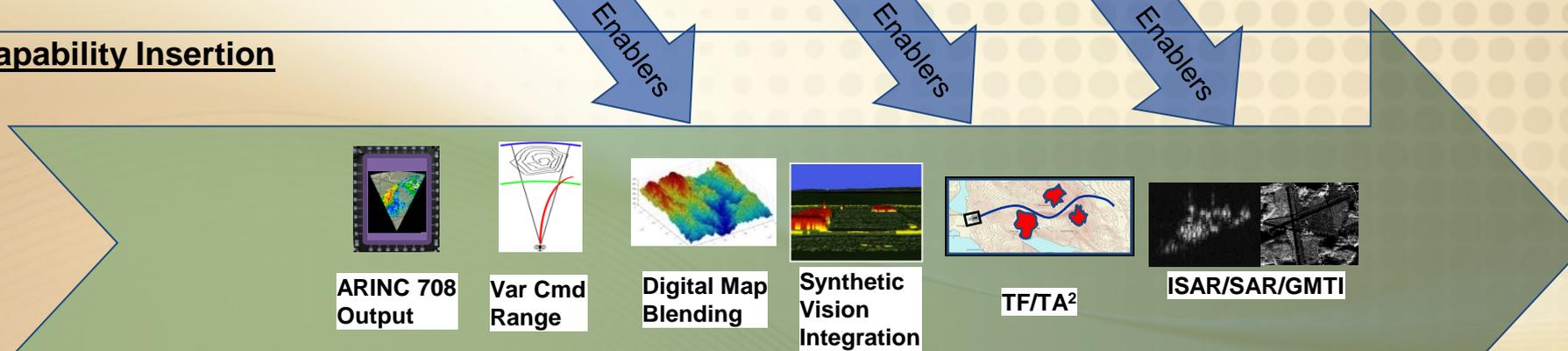
Follow-on Platforms



Technology Insertion



Capability Insertion



Funded under current effort

FY 19 RDT&E Funded Software-Only Upgrades

GMTI - Ground Moving Target Indication, ISAR - Inverse Synthetic Aperture Radar, SAR - Synthetic Aperture Radar, GMTI - Ground Moving Target Indication

WAY FORWARD

- **Accept Delivery of All Low Rate Initial Production (LRIP) I Systems (total of six systems)**
- **Complete Qualification Testing**
- **Update Operator and Maintainer Training Materials**
- **Collaborate with PEO-FW to Enable CV-22 and MC-130J Integration and Test**
- **Award LRIP II and Full Rate Production Contracts**
- **Prepare for Operational Testing**
- **Prepare for Technology Refresh (FY19/20)**



SUMMARY

Cost

- Persistent BIT and software anomalies drove Developmental Testing extension
- FY16 President's Budget provides funding for production thru FY20

Schedule

- Implemented Developmental Test extension and delayed LRIP II procurement
- Schedule margin has been depleted, however IOT&E can be completed NLT April 16
- First LRIP system delivered

Performance

- BIT compliance and software stability issue resolved (flying with software version 7.10)
- LRIP systems used during Qualification Testing
- One additional software 'drop' anticipated prior to IOT&E

Sustainability

- MH-47G Mod 2.3 MWO Val/Ver complete
- Spares contract awarded
- Fielding working group meeting quarterly

